

SEARCH REQUEST FORM

12-339

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041 016

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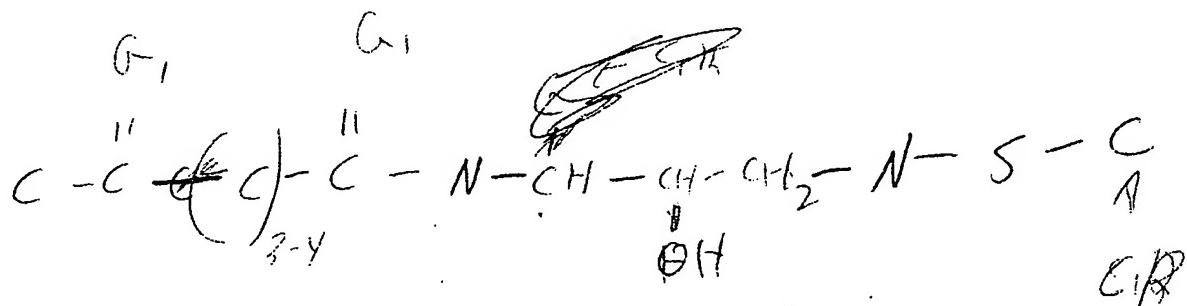
305 453 1

Art Unit:

1613 3B9

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).



10/784 916
Examiner notes

G₁ = O₂S₂N

Search for 09/041,016 - 12/9/98
(parent application)

=> fil reg

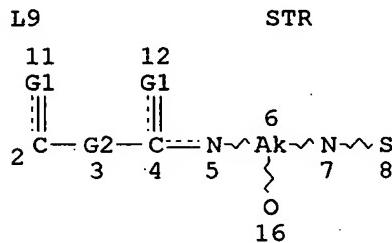
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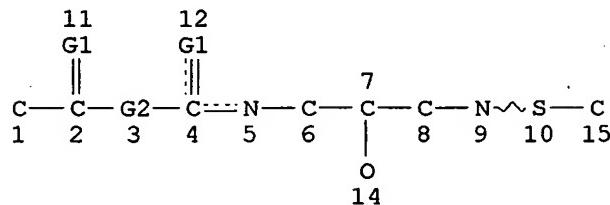
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 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE
 L11 293 SEA FILE=REGISTRY SSS FUL L9
 L12 STR



VAR G1=O/S/N
 REP G2=(1-6) C
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 7 ITERATIONS 0 ANSWERS
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=> fil wpids

FILE 'WPIDS' ENTERED AT 15:06:35 ON 09 DEC 1998
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FILE LAST UPDATED: 03 DEC 1998 <19981203/UP>

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L20	39 SEA FILE=WPIDS ABB=ON	PLU=ON	("DECRESSENZO G"/AU OR "DECRESSENZO G A"/AU)
L21	39 SEA FILE=WPIDS ABB=ON	PLU=ON	("FRESKOS J"/AU OR "FRESKOS J N"/AU)
L22	1704 SEA FILE=WPIDS ABB=ON	PLU=ON	(L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21)
L23	58 SEA FILE=WPIDS ABB=ON	PLU=ON	L22 AND (PROTEASE OR PROTEINASE)
L24	49 SEA FILE=WPIDS ABB=ON	PLU=ON	L22 AND RETROVIR?
L26	42 SEA FILE=WPIDS ABB=ON	PLU=ON	L23 AND L24
L27	3 SEA FILE=WPIDS ABB=ON	PLU=ON	L26 AND SUCCIN?
L28	1 SEA FILE=WPIDS ABB=ON	PLU=ON	L26 AND SULFON?
L29	30 SEA FILE=WPIDS ABB=ON	PLU=ON	L26 AND SULPHON?
L30	3 SEA FILE=WPIDS ABB=ON	PLU=ON	(L28 OR L29) AND L27

=> d 130 bib abs tot

L30 ANSWER 1 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
 AN 98-332223 [29] WPIDS
 CR 94-083052 [10]; 95-392184 [50]; 98-158356 [12]

DNC C98-102918
 TI Inhibition of **retroviral protease** - by administration of **succinoyl-amino-hydroxy-ethyl-amino sulphonamide**.
 DC B05
 IN DECRESCENZO, G A; FRESKOS, J N; GETMAN, D; MUELLER, R A; TALLEY, J J; VAZQUEZ, M L
 PA (MONSANTO CO; (SEAR) SEARLE & CO G D
 CYC 1
 PI US 5760076 A 980602 (9829)* 33 pp
 ADT US 5760076 A CIP of US 92-935940 920825, Div ex US 93-110912 930824, US 95-541747 951010
 FDT US 5760076 A Div ex US 5463104
 PRAI US 93-110912 930824; US 92-935940 920825; US 95-541747 951010
 AN 98-332223 [29] WPIDS
 CR 94-083052 [10]; 95-392184 [50]; 98-158356 [12]
 AB US 5760076 A UPAB: 980722
 Inhibition of a **retroviral protease** comprises administering composition comprising a hydroxyethylaminosulphonamide derivative of formula (I), or one of its salts, and a carrier. x = 0-2; t = 0 or 1; R1 = H, -CH2SO2NH2, -CO2CH3, -CONHCH3, -CON(CH3)2, -CH2C(O)NHCH3, -CH2C(O)N(CH3)2, -CONH2, -C(CH3)2(SH), -C(CH3)2(SCH3), -C(CH3)2(S(O)CH3), -C(CH3)2(S(O)2CH3), alkyl, halo alkyl, alkenyl, alkynyl, cycloalkyl, or the side chain of asparagine, S-methyl cysteine and their corresponding sulphoxide and sulphone derivatives, glycine, leucine, isoleucine, allo-leucine, tertiary leucine, phenylalanine, ornithine, alanine, histidine, norleucine, glutamine, valine, threonine, serine, o-alkyl serine, aspartic acid, beta -cyano alanine or allo-threonine; R2 = alkyl, aryl, cycloalkyl, cycloalkylalkyl or arylalkyl (each optionally substituted with halo or alkyl), -NO2, -C triple bond N, CF3, -OR9 or -SR9; R9 = H, or alkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, heterocycloalkyl, heteroaryl, heterocycloalkylalkyl, aryl, aralkyl, heteroaralkyl, aminoalkyl (optionally mono- or disubstituted by alkyl, aryl, aralkyl, cycloalkyl, cycloalkylalkyl, heteroaryl, heteroarylalkyl, heterocycloalkyl or heterocycloalkylalkyl or in the case of disubstitution, the substituents together with the nitrogen atom to which they are attached form heterocycloalkyl or heteroaryl); X' = N, O or C(R17); R17 = H, or alkyl; Y, Y' = O, S or NR15; R15 = R3; R4 = alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, cycloalkylalkyl, heterocycloalkyl, heteroaryl, heterocycloalkylalkyl, aryl, aralkyl, heteroaralkyl, aminoalkyl (optionally mono- or disubstituted by alkyl, aryl, aralkyl, cycloalkyl, cycloalkylalkyl, heteroaryl, heteroarylalkyl, heterocycloalkyl or heterocycloalkylalkyl or in the case of disubstitution, the substituents together with the nitrogen atom to which they are attached form heterocycloalkyl or heteroaryl); R6 = H or alkyl; R30-R32 = R1 or one of R1 and R30 together with one of R31 and R32 and the carbon atoms to which they are attached form cycloalkyl or R30 and R30 together with the carbon atoms to which they are attached form 3-6C cycloalkyl; R33, R34 = R3; or R33 and R34 together with X' = cycloalkyl, aryl, heterocyclyl or heteroaryl, provided that when X' is O, then R34 is absent.

USE - The method is used in the inhibition of HIV **protease**, and is thus useful in the treatment of HIV infection and AIDS (claimed). The method can also be used to inhibit

other strains of HIV, such as HIV-2, and other viruses such as human T-cell leukaemia virus, simian immunodeficiency virus, feline leukaemia virus, respiratory syncytial virus, hepadnavirus, cytomegalovirus and picornavirus.

Dwg.0/0

L30 ANSWER 2 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
 AN 97-020446 [02] WPIDS
 DNC C97-006581
 TI New (amino-hydroxy-phenyl-butyl) sulphonyl urea derivs. - with N-(quinolinyl-carbonyl)amino-succinamide gp., useful as **retroviral protease** inhibitors.
 DC B02
 IN DECRESCENZO, G A; GETMAN, D P; MUELLER, R
 A; SUN, E T; TALLEY, J J; VAZQUEZ, M L
 PA (SEARL) SEARLE & CO G D
 CYC 1
 PI US 5578606 A 961126 (9702)* 37 pp
 ADT US 5578606 A US 92-968712 921030
 PRAI US 92-968712 921030
 AN 97-020446 [02] WPIDS
 AB US 5578606 A UPAB: 970108
 Peptide analogues of formula (I) and their salts are new. n = 0-2; R3 = alkyl (opt. subst. by Ar, pyridyl, pyrrolyl, imidazolyl, pyrazolyl, pyrimidinyl, triazolyl, oxazolyl or thiazolyl); Ar = phenyl (opt. subst. by Me, OMe, t-butoxy, F, Cl, OH, NH2 or CN); R8 = as R3, CN, OH or COOH, alkylthio, alkylsulphonyl, SO2Ar, 1-8C alkanoyl, alkoxy carbonyl (opt. subst. by Ar, dicarbamoyl, dialkylamino, NRAr, 2-(Het)ethoxy, pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl or 4-alkylpiperazinyl; Het = pyrrolidinyl, piperidinyl, piperazinyl, morpholinyl or thiomorpholinyl; R = alkyl; alkyl, alkoxy have 1-8C.
 USE - (I) are **retroviral** (esp. HIV) **protease** inhibitors for treating **retroviral** infections. Daily dose is 0.001-10 (esp. 0.01-1) mg/kg.
 Dwg.0/0

L30 ANSWER 3 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD
 AN 95-392184 [50] WPIDS
 CR 94-083052 [10]; 98-158356 [12]; 98-332223 [29]
 DNC C95-168971
 TI 3-Sulphonamido-propanol amide(s) of succinic and glutaric acids - are **retroviral protease** inhibitors, used for e.g. HIV, leukaemia viruses, cytomegalovirus, picornavirus, feline and simian viruses.
 DC B05
 IN DECRESCENZO, G A; FRESKOS, J N; GETMAN, D; MUELLER, R A; TALLEY, J J; VAZQUEZ, M L
 PA (SEARL) SEARLE & CO G D
 CYC 1
 PI US 5463104 A 951031 (9550)* 32 pp
 ADT US 5463104 A CIP of US 92-935490 920825, US 93-110912 930824
 PRAI US 93-110912 930824; US 92-935490 920825
 AN 95-392184 [50] WPIDS
 CR 94-083052 [10]; 98-158356 [12]; 98-332223 [29]
 AB US 5463104 A UPAB: 980722
 3-Sulphonamido-propanolamides of succinic and glutaric acids, of formula(I), and their salts and esters, are new:

$x = 0-2$; $t = 0$ or 1 ; $Y, Y' = O$ or S ; $X' = NR34$ or O ; or $X'R33$ together = $3-8C$ cyclohexyl or aryl; all aryl = phenyl or naphthyl (both opt. subst. by alkyl, alkoxy, halo, OH, amino, NHAc, nitro, cyano, or haloalkyl); $R1, R30-R32 = H, OH, CH2Ac, CH2SO2NH2, COOMe, CONHMe, CONMe2, CONH2, CMe2SH, CMe2SMe, CMe2SOMe, 1-8C alkyl$ or haloalkyl, $2-8C$ alkenyl, $2-10C$ alkynyl, aralkyl, $3-8C$ cycloalkyl, or the side chain of the amino acids asparagine, S-methylcysteine or its SO or SO₂ analogues, leucine, isoleucine, alloisoleucine, tert-leucine, norleucine, phenylalanine, ornithine, alanine, glutamine, valine, threonine, allothreonine, serine and O-alkyl derivs., aspartic acid, or beta-cyanoalanine; (note: all alkenyl can include more than one double bond); or $R30, R32$ and attached C atoms = $3-8C$ cycloalkyl; $R2 = 1-8C$ alkyl, aryl, aralkyl, $3-8C$ cycloalkyl, cycloalkylalkyl (all opt. subst. by halo, alkyl, nitro, cyano, CF₃, OR₉, or SR₉; $R9 = H$ or $1-8C$ alkyl; $R3, R33, R34 = H, 1-8C$ alkyl or haloalkyl or hydroxyalkyl, $2-8C$ alkenyl, $2-10C$ alkynyl, $1-8C$ alkoxy, $1-8C$ alkyl, $3-8C$ cycloalkyl, cycloalkylalkyl, aryl, aralkyl, or aminoalkyl (opt. N-mono- or N,N-di- subst. by alkyl, aryl, aralkyl, cycloalkyl, or cycloalkylalkyl); $R4 =$ as $R3$ but not H ; and $R6 = H$ or $1-8C$ alkyl.

USE - (I) have antiviral activity, partic. **retroviral**, as **protease** inhibitors. They are of use for treatment and prophylaxis of HIV, and expected to be also for HIV-2, human T-cell leukaemia, simian immunodeficiency, feline leukaemia, and respiratory syncytial viruses, hepadanavirus, cytomegalovirus, and picornavirus.

Dwg.0/0

=> d his 130-

(FILE 'WPIDS' ENTERED AT 15:00:40 ON 09 DEC 1998)

L30 3 S L28, L29 AND L27
 SEL PN APPS

FILE 'HCAPLUS' ENTERED AT 15:05:08 ON 09 DEC 1998

L31 3 S E1-E8
 SEL RN

FILE 'REGISTRY' ENTERED AT 15:05:27 ON 09 DEC 1998

L32 93 S E9-E101
L33 17 S L11 AND L32

FILE 'WPIDS' ENTERED AT 15:06:35 ON 09 DEC 1998

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FILE LAST UPDATED: 9 Dec 1998 (981209/ED)

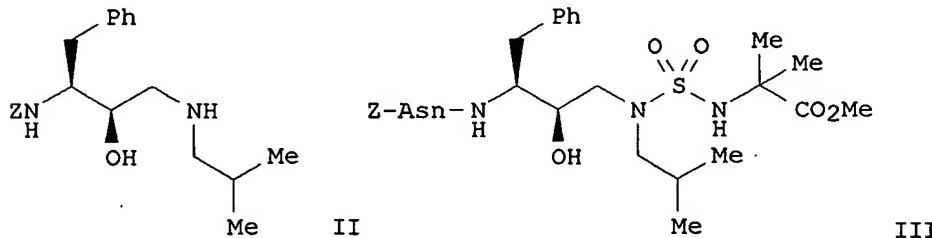
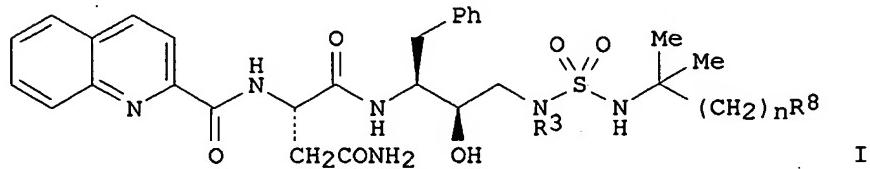
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L31 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 1998 ACS
 AN 1996:725344 HCAPLUS
 DN 126:75247
 TI Preparation of .alpha.- and .beta.-amino acid hydroxyethylamino
 sulfonyl urea derivatives as retroviral protease inhibitors
 IN Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman,
 Daniel P.; Decrescenzo, Gary A.; Sun, Eric T.
 PA G. D. Searle & Co., USA
 SO U.S., 37 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5578606	A	19961126	US 92-968712	19921030 <-
OS MARPAT 126:75247				
GI				

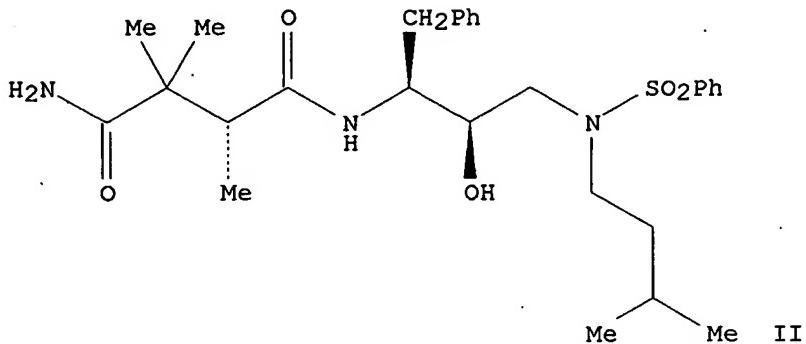
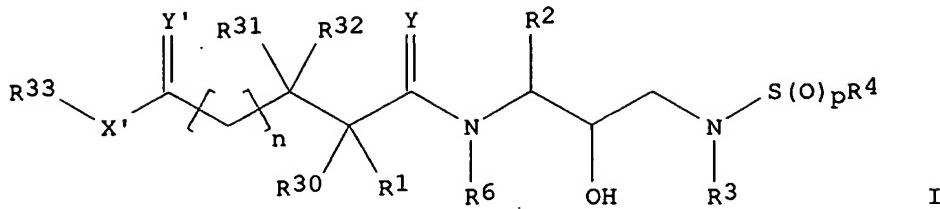


AB .alpha.- And .beta.-amino acid hydroxyethylamino sulfonyl urea deriv. compds., e.g. I [R3 = C1-8 alkyl, (un)substituted C1-8 alkylphenyl, C1-8 heteroaralkyl; R8 = (un)substituted Ph, heterocyclyl, CN, OH, CO2H, C1-8 alkylthio, (un)substituted phenylsulfonyl, C1-8 alkanoyl, C1-8 alkoxycarbonyl, C1-8 dialkylaminocarbonyl, N-C1-8- alkyl-N-phenylcarbamoyl,

2-heterocyclylethoxy, heterocyclyl; n = 0-2], are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Thus, coupling of protected amino(hydroxy)phenylbutylamine II (Z = PhCH₂O₂C) (prepd. in 3 steps from chloromethyl ketone Z-L-Phe-CH₂Cl) with ClSO₂NHCMe₂CO₂Me, followed by hydrogenolysis and coupling with Z-Asn-OH gave inhibitor III.

L31 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 1998 ACS
AN 1995:964989 HCAPLUS
DN 124:176937
TI N-[(Succinoylamino)hydroxypropyl]sulfonamides useful as retroviral protease inhibitors
IN Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.
PA G. D. Searle and Co., USA
SO U.S., 32 pp. Cont.-in-part of U.S. Ser. No. 935,490, abandoned
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5463104	A	19951031	US 93-110912	19930824 <--
	AT 154800	E	19970715	AT 93-920213	19930824 <--
	ES 2103488	T3	19970916	ES 93-920213	19930824 <--
	US 5714605	A	19980203	US 95-541350	19951010 <--
	US 5760076	A	19980602	US 95-541747	19951010 <--
PRAI	US 92-935490		19920825 <--		
	US 92-935940		19920825 <--		
	US 93-110912		19930824 <--		
OS	MARPAT	124:176937			
GI					



AB Succinoylamino hydroxyethylamino sulfonamide compds. I or a pharmaceutically acceptable salt or ester thereof, wherein p represents 0, 1 or 2; n represents either 0 or 1; X' represents N(R34) or O; or R33X' represents cycloalkyl or aryl radicals; Y and Y' each independently represent O or S; R1, R30, R31 and R32 each independently represent hydrogen, OH, (CH2)C(O)CH3, CH2SO2NH2, CO2CH3, CONHCH3, CON(CH3)2, CH2C(O)NHCH3, CH2C(O)N(CH3)2, CONH2, C(CH3)2(SH), C(CH3)2(SCH3), C(CH3)2[S(O)CH3], C(CH3)2[S(O)2CH3], alkyl, haloalkyl, alkenyl, alkynyl, aralkyl or cycloalkyl radicals, or the side chain of the amino acid asparagine, S-Me cysteine or the corresponding sulfoxide or sulfone derivs. thereof, leucine, isoleucine, allo-isoleucine, tert-leucine, phenylalanine, ornithine, alanine, norleucine, glutamine, valine, threonine, serine, o-alkyl serine, aspartic acid, .beta.-cyanoalanine or allo-threonine; or R30 and R32 together with the carbon atoms to which they are attached form a cycloalkyl radical; R2 = e.g., alkyl, aryl, cycloalkyl; R3, R33, R34 = e.g., H, alkyl, haloalkyl; R4 = e.g., alkyl, haloalkyl, alkenyl; R6 = H, alkyl; are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Thus, e.g., butanediamide II was prep'd. by coupling of benzyl (R)-2,2,3-trimethylsuccinate (prepn. given) with 2(R)-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1(S)-(phenylmethyl)propylamine (prepn. given) followed by benzyl ester hydrogenolysis and amidation, and exhibited IC50 = 2 nM for inhibition of HIV protease.

L31 ANSWER 3 OF 3 HCPLUS COPYRIGHT 1998 ACS

AN 1994:579258 HCPLUS

DN 121:179258

TI N-(alkanoylamino-2-hydroxypropyl)sulfonamides useful as HIV protease inhibitors

IN Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman,

PA Daniel; Decrescenzo, Gary A.; Freskos, John N.
 PA Searle, G. D., and Co., USA; Monsanto Co.
 SO PCT Int. Appl., 103 pp.

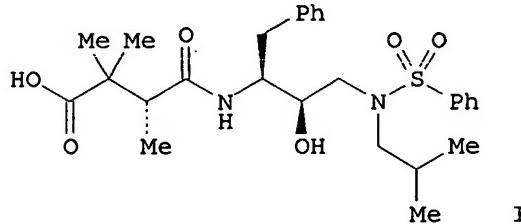
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	EP 656886	A1	19950614	EP 93-920213	19930824 <--
	EP 656886	B1	19970625		
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	AT 154800	E	19970715	AT 93-920213	19930824 <--
	ES 2103488	T3	19970916	ES 93-920213	19930824 <--
	AU 674702	B2	19970109	AU 93-50819	19930825 <--
	NO 9500670	A	19950222	NO 95-670	19950222 <--
	FI 9500841	A	19950223	FI 95-841	19950223 <--
PRAI	US 92-935490		19920825 <--		
	WO 93-US7815		19930825		
OS	MARPAT	121:179258			
GI					



AB The title compds. R33(R34)X1C(:Y1)(CH2)tc(R31)(R32)C(R30)(R1)C(:Y)N(R6)C(R2)HC(OH)HCH2N(R3)S(O)xR4 [R1 = H, CH2SO2NH2, CO2Me, CONHMe, CONMe2, etc.; R2 = alkyl, aryl, cycloalkyl, (un)substituted cycloalkylalkyl and arylalkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, etc.; R4 = alkyl, haloalkyl alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl etc.; R6 = H, alkyl; R30-R32 = R1; R1R30R31 = cycloalkyl; R1R30R32C = cycloalkyl; R33, R34 = H, R3; R33R34X1 = cycloalkyl, aryl, heterocycl, etc.; X1 = O, N, CR17; R17 = H, alkyl; Y, Y1 = O, S, NR15; R15 = H, R3; t = 0, 1; x = 0-2], useful as HIV protease inhibitors for the treatment of AIDS, are prep'd. Thus, sulfonamide I was prep'd. and demonstrated IC50 against HIV protease of 1 nmol.

> fil reg

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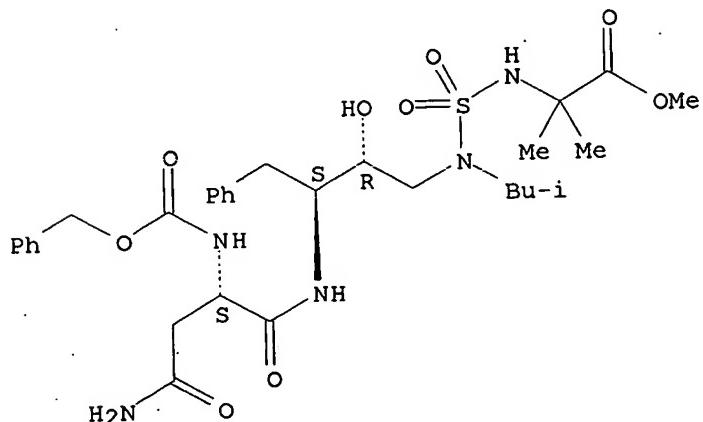
TSCA INFORMATION NOW CURRENT THROUGH JUNE 29, 1998

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=> d ide can tot 133

L33 ANSWER 1 OF 17 REGISTRY COPYRIGHT 1998 ACS
 RN 185256-67-1 REGISTRY
 CN 10-Thia-2,5,9,11-tetraazatridecanedioic acid, 3-(2-amino-2-oxoethyl)-
 7-hydroxy-12,12-dimethyl-9-(2-methylpropyl)-4-oxo-6-(phenylmethyl)-,
 13-methyl 1-(phenylmethyl) ester, 10,10-dioxide, [3S-(3R*,6R*,7S*)]-
 (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C31 H45 N5 O9 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:75247

L33 ANSWER 2 OF 17 REGISTRY COPYRIGHT 1998 ACS
 RN 173590-71-1 REGISTRY
 CN Butanediamide, N4-[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amin
 o]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, [1S-[1R*(S*),2S*]]-
 (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C27 H39 N3 O5 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 15 OF 17 REGISTRY COPYRIGHT 1998 ACS
 RN 157445-98-2 REGISTRY
 CN Butanoic acid, 4-[(2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN SC 98A

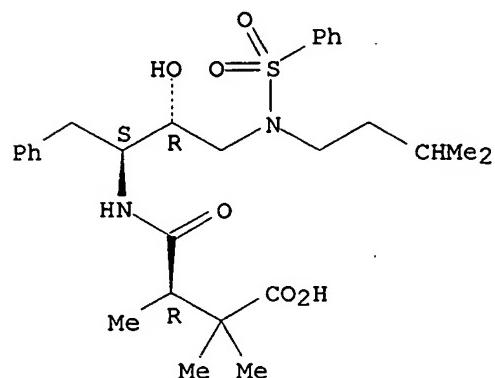
FS STEREOSEARCH

MF C28 H40 N2 O6 S

SR CA

LC STN Files: CA, CAPLUS, IPA, TOXLINE, TOXLIT, USPATFULL

Absolute stereochemistry.



3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

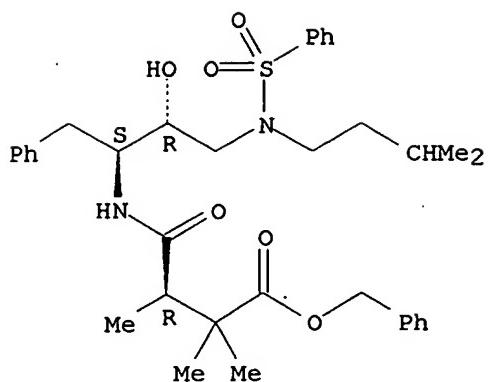
REFERENCE 1: 124:193129

REFERENCE 2: 124:176937

REFERENCE 3: 121:179258

L33 ANSWER 16 OF 17 REGISTRY COPYRIGHT 1998 ACS
 RN 157445-97-1 REGISTRY
 CN Butanoic acid, 4-[(2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C35 H46 N2 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 17 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157445-96-0 REGISTRY

CN Butanediamide, N4-[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

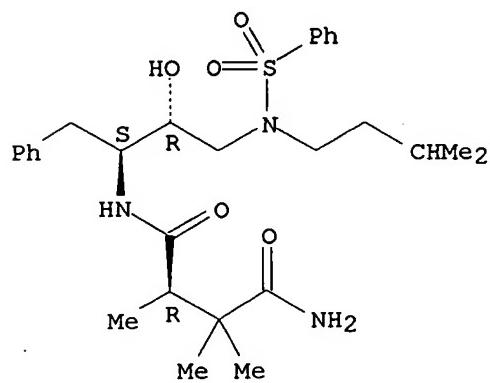
FS STEREOSEARCH

MF C28 H41 N3 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

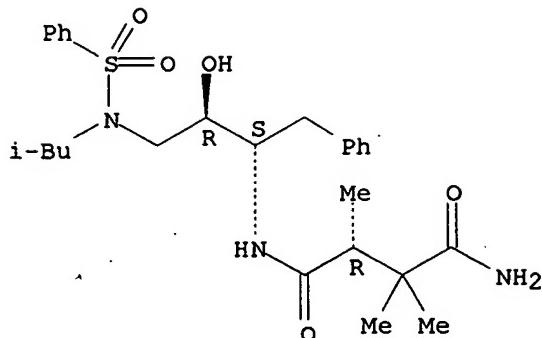


2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

Absolute stereochemistry.

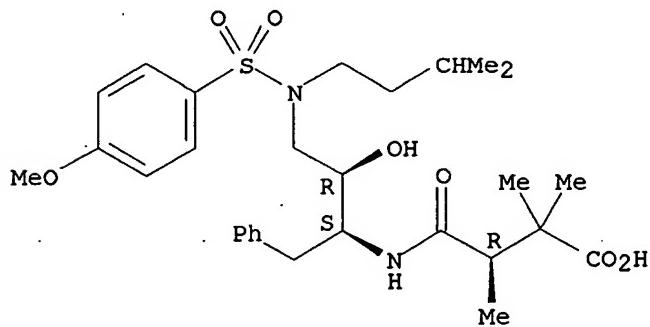


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

L33 ANSWER 3 OF 17 REGISTRY COPYRIGHT 1998 ACS
RN 157474-44-7 REGISTRY
CN Butanoic acid, 4-[[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C29 H42 N2 O7 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

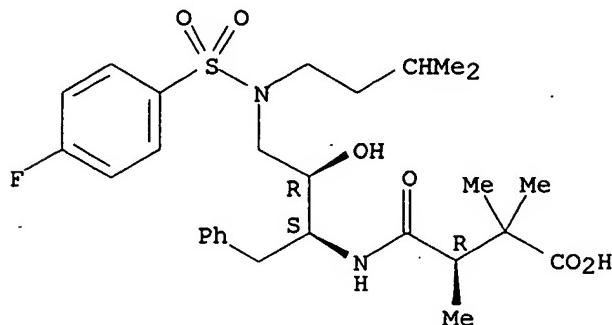
REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 4 OF 17 REGISTRY COPYRIGHT 1998 ACS
RN 157446-09-8 REGISTRY
CN Butanoic acid, 4-[[3-[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH
 MF C28 H39 F N2 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



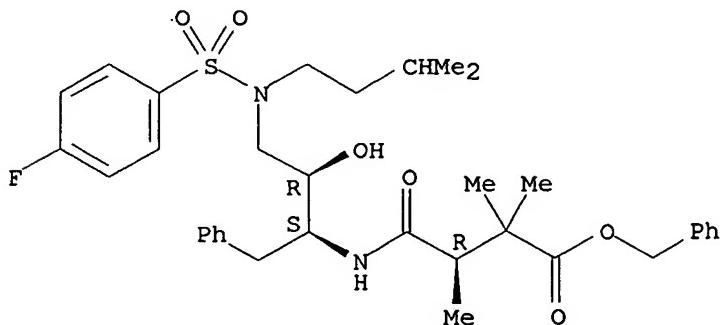
2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 5 OF 17 REGISTRY COPYRIGHT 1998 ACS
 RN 157446-08-7 REGISTRY
 CN Butanoic acid, 4-[[3-[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C35 H45 F N2 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



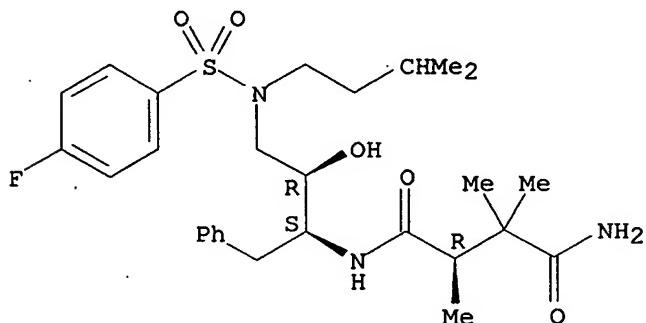
2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 6 OF 17 REGISTRY COPYRIGHT 1998 ACS
 RN 157446-07-6 REGISTRY
 CN Butanediamide, N4-[3-[[4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C28 H40 F N3 O5 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



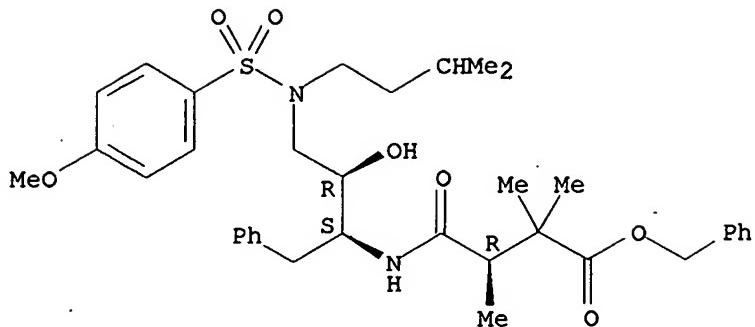
2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 7 OF 17 REGISTRY COPYRIGHT 1998 ACS
 RN 157446-06-5 REGISTRY
 CN Butanoic acid, 4-[[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C36 H48 N2 O7 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 8 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157446-05-4 REGISTRY

CN Butanediamide, N4-[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

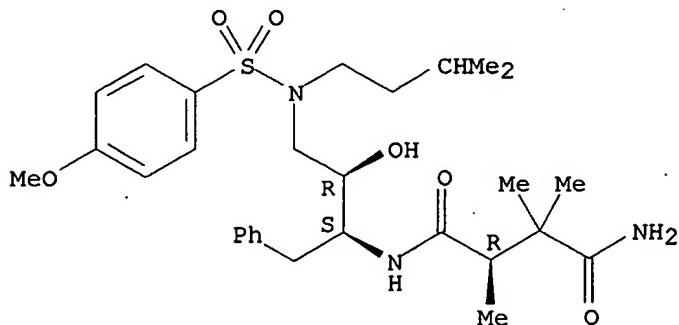
FS STEREOSEARCH

MF C29 H43 N3 O6 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

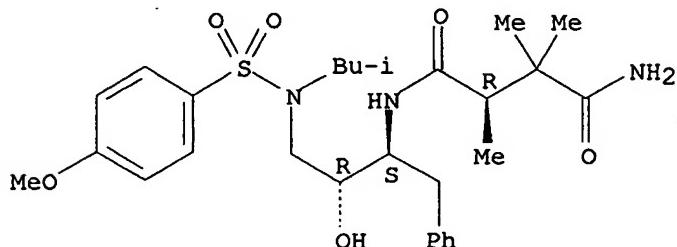
L33 ANSWER 9 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157446-04-3 REGISTRY

CN Butanediamide, N4-[2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-,

[1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C28 H41 N3 O6 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



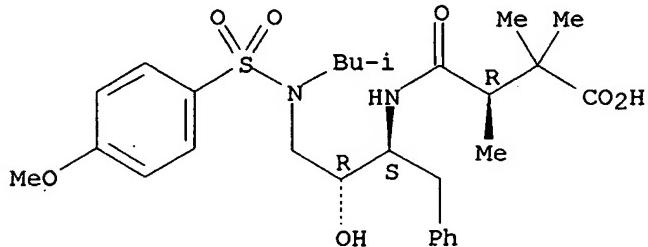
2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 10 OF 17 REGISTRY COPYRIGHT 1998 ACS
 RN 157446-03-2 REGISTRY
 CN Butanoic acid, 4-[(2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C28 H40 N2 O7 S
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 11 OF 17 REGISTRY COPYRIGHT 1998 ACS
 RN 157446-02-1 REGISTRY
 CN Butanoic acid, 4-[(2-hydroxy-3-[(4-methoxyphenyl)sulfonyl](2-

methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

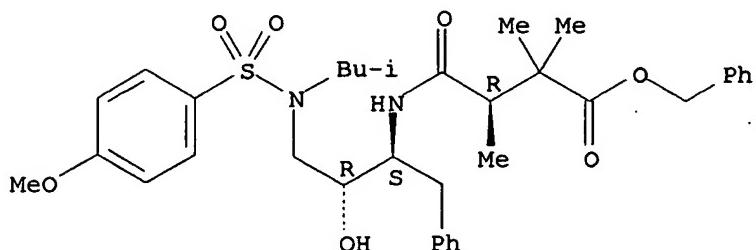
FS STEREOSEARCH

MF C35 H46 N2 O7 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 12 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157446-01-0 REGISTRY

CN Propanediamide, N-[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

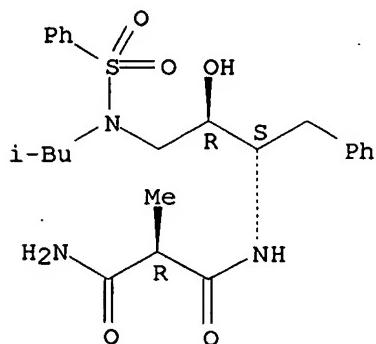
FS STEREOSEARCH

MF C24 H33 N3 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:179258

L33 ANSWER 13 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157446-00-9 REGISTRY

CN Butanoic acid, 4-[(2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

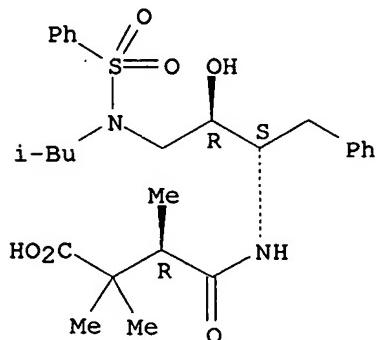
FS STEREOSEARCH

MF C27 H38 N2 O6 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 14 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157445-99-3 REGISTRY

CN Butanoic acid, 4-[(2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R*(S*),2S*]]- (9CI) (CA INDEX NAME)

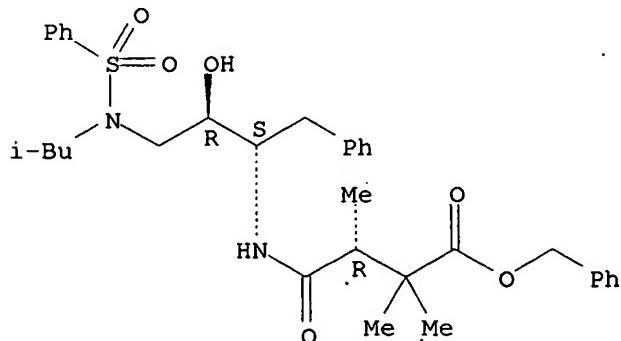
FS STEREOSEARCH

MF C34 H44 N2 O6 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)